68060 CM1-9509 → 4E12

U.S. DEPARTMENT OF COMMERCE
Patent and Trademark Office

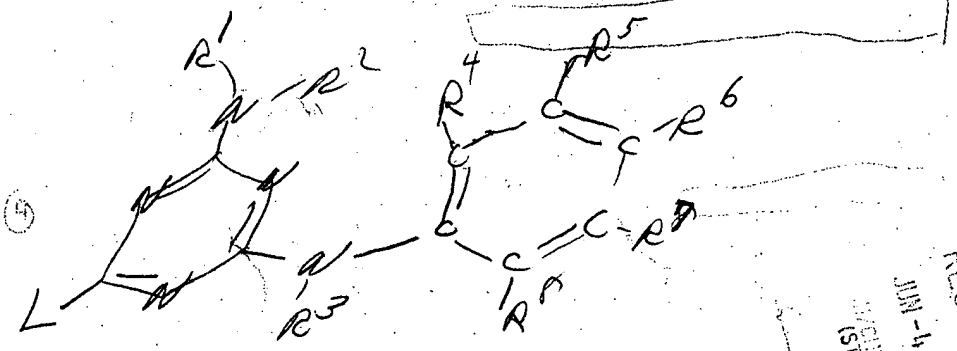
SEARCH REQUEST FORM

Requestor's Name: J. M. Ford Serial Number: 10/002456

Date: 6-3-2002 Phone: 703-308-4721 Art Unit: 1621

Search Topic:

Please write a detailed statement of search topic. Describe specifically as possible the subject matter to be searched. Define any terms that may have a special meaning. Give examples or relevant citations, authors keywords, etc., if known. For sequences, please attach a copy of the sequence. You may include a copy of the broadest and/or most relevant claim(s).



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(STIC)

POINT OF CONTACT:
PAUL SCHULWITZ
TECHNICAL INFO. SPECIALIST
CM1 6806 TEL. (703) 305-1954

STAFF USE ONLY

Date completed:
Searcher: Paul Schulwitz
Terminal time: 6/11 6/11
Elapsed time: 20
CPU time: 37
Total time:
Number of Searches:
Number of Databases:

Search Site
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Type of Search
- ___ N.A. Sequence
- ___ A.A. Sequence
- ✓ Structure
- ___ Bibliographic

Vendors
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- ___ Dialog
- ___ APS
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- ___ Other

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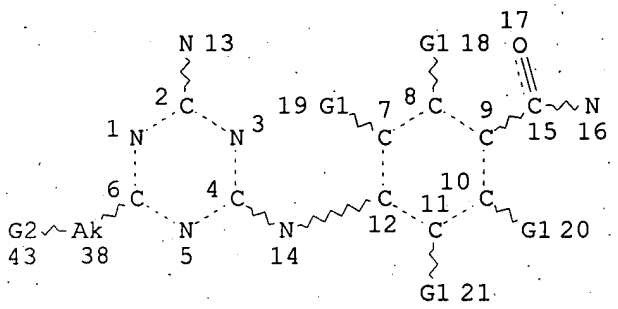
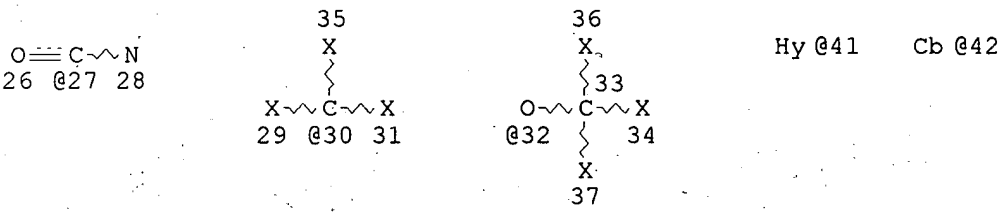
L34 STR





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CONNECT IS M2 RC AT 41
DEFAULT MLEVEL IS ATOM
GGCAT IS LOC AT 23
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GGCAT IS MCY UNS AT 42
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GRAPH ATTRIBUTES:
RSPEC 1 12
NUMBER OF NODES IS 41

STEREO ATTRIBUTES: NONE
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NO HITS IN BEILSTEIN

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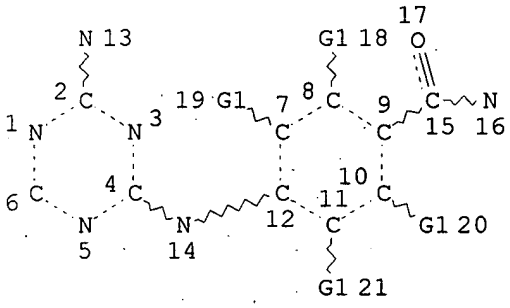

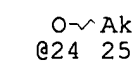

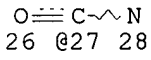

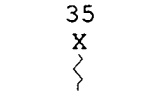

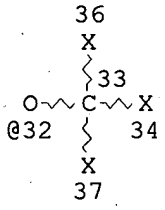


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GGCAT    IS LOC  AT  23
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DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:
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STEREO ATTRIBUTES: NONE
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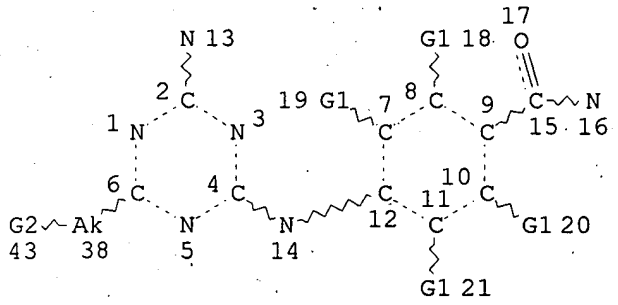
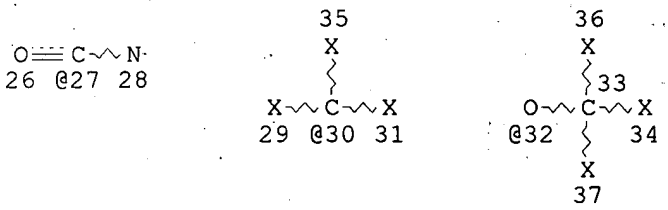
571 Structures in parent set





VAR G1=H/22/X/23/24/CN/27/NO2/NH2/30/32
VAR G2=41/42
NODE ATTRIBUTES:
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DEFAULT MLEVEL IS ATOM
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GGCAT IS PCY AT 41
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DEFAULT ECLEVEL IS LIMITED
ECOUNT IS E8 C E1 N AT 41
ECOUNT IS E6 C AT 42

GRAPH ATTRIBUTES:
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NUMBER OF NODES IS 41

STEREO ATTRIBUTES: NONE
L35 2 SEA FILE=REGISTRY SUB=L7 SSS FUL L34 — 2 substances from refined search
L36 2 SEA FILE=HCAPLUS ABB=ON PLU=ON L35 — 2 publications

L36 ANSWER 1 OF 2 HCAPLUS COPYRIGHT 2002 ACS
AN 2001:833290 HCAPLUS
DN 135:371765
TI Preparation of substituted amino pyrimidines and triazines as HIV replication inhibitors
IN Kukla, Michael Joseph; Ludovici, Donald William; Kavash, Robert W.; De Corte, Bart Lieven Daniel; Heeres, Jan; Janssen, Paul Adriaan Jan; Koymans, Lucien Maria Henricus; De Jonge, Marc Rene; Van Aken Koen, Jeanne Alfons; Krief, Alain; Leenders, Ruben Gerardus George
PA Janssen Pharmaceutica N.V., Belg.
SO PCT Int. Appl., 80 pp.
CODEN: PIXXD2
DT Patent
LA English
FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI WO 2001085700	A2	20011115	WO 2001-EP4991	20010503
WO 2001085700	A3	20020207		

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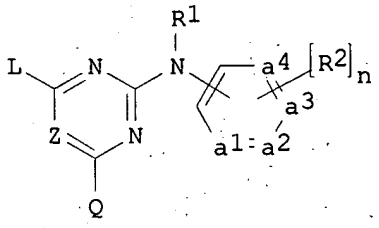
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG

PRAI US 2000-202472P P 20000508
OS MARPAT 135:371765
GI



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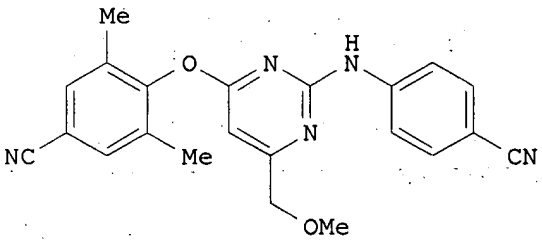


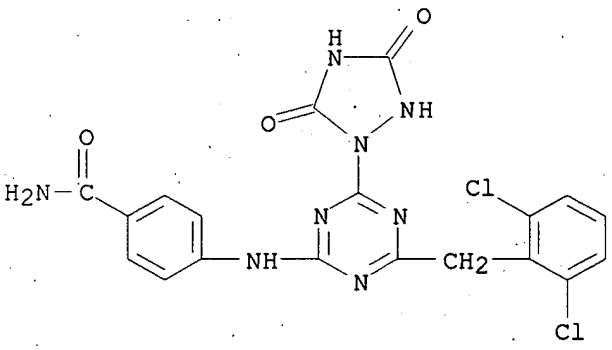
II

AB The title compds. [I; a1:a2a3:a4 = CH:CHCH:CH, N:CHCH:CH; N:CHN:CH, N:CHCH:N, N:NCH:CH; n = 0-5; R1 = H, aryl, formyl, etc.; R2 = OH, halo, alkyl, etc.; L = alkyl, alkenyl, cycloalkyl, etc.; Q = CN, OH, SH, etc.; Z = CY, N; Y = H, OH, halo, etc.; provided that when Q = halo then Z = N; or when Q = polyhaloalkyl then Y = H or alkyl] were prepd. Thus, reacting 4-(4-chloro-6-methoxymethylpyrimidin-2-ylamino)benzonitrile (prepn. given) with 4-hydroxy-3,5-dimethylbenzonitrile afforded II which showed IC50 of 0.001585 .mu.M against HIV in MT-4 cell line.

IT **373686-86-3P**
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(prepn. of substituted amino pyrimidines and triazines as HIV replication inhibitors)

RN 373686-86-3 HCAPLUS

CN Benzamide, 4-[[4-[(2,6-dichlorophenyl)methyl]-6-(3,5-dioxo-1,2,4-triazolidin-1-yl)-1,3,5-triazin-2-yl]amino]- (9CI) (CA INDEX NAME)



L36 ANSWER 2 OF 2 HCAPLUS COPYRIGHT 2002 ACS

AN 1998:228992 HCAPLUS

DN 128:257449

TI Preparation and anti-HIV activity of substituted diamino-1,3,5-triazine derivatives

IN Kukla, Michael Joseph; Ludovici, Donald W.; Janssen, Paul Adriaan Jan; Heeres, Jan; Moereels, Henri Emiel Lodewijk

PA Janssen Pharmaceutica N.V., Belg.

SO Eur. Pat. Appl., 31 pp.
CODEN: EPXXDW

DT Patent

LA English

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	EP 834507	A1	19980408	EP 1997-202917	19970924
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO				
	NO 9704368	A	19980402	NO 1997-4368	19970922
	CA 2216486	AA	19980401	CA 1997-2216486	19970925
	AU 9739266	A1	19980409	AU 1997-39266	19970926
	AU 740809	B2	20011115		

EP EPWW

Search Report Attached

	US 6380194	B1	20020430	US 1997-938602	19970926
	JP 10114759	A2	19980506	JP 1997-279387	19970929
	CN 1180698	A	19980506	CN 1997-121454	19970930
	CN 1083438	B	20020424		
	ZA 9708766	A	19990330	ZA 1997-8766	19970930
	BR 9704937	A	20000606	BR 1997-4937	19970930
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OS MARPAT 128:257449

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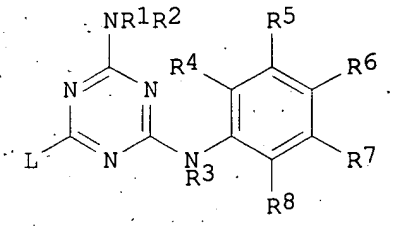

I

AB The title compds. I [R1, R2 = hydrogen, hydroxy, amino, optionally substituted C1-6alkyl, C1-6alkyloxy, C1-6alkylcarbonyl, C1-6alkyloxycarbonyl, Ar1, mono- or di(C1-6alkyl)amino, mono- or di(C1-6alkyl)aminocarbonyl, dihydro-2(3H)-furanone, or R1 and R2 taken together may form pyrrolidinyl, piperidinyl, morpholinyl, azido or mono- or di(C1-6alkyl)aminoC1-4alkylidene; R3 = hydrogen, Ar1, C1-6alkylcarbonyl, C1-6alkyl, C1-6alkyloxycarbonyl, C1-6alkyl substituted with C1-6alkyloxycarbonyl; R4, R5, R6, R7, R8 = hydrogen, halo, C1-6alkyl, C1-6alkyloxy, cyano, aminocarbonyl, nitro, amino, trihalomethyl, trihalomethyloxy; L = optionally substituted C1-10alkyl, C3-10alkenyl, C3-10alkynyl, C3-7cycloalkyl; Ar1 = optionally substituted phenyl], useful for the manuf. of a medicine for the treatment of subjects suffering from HIV (Human Immunodeficiency Virus) infection, were prepd. E.g., reaction of Ph N'-cyano-N-(4-cyanophenyl)carbamimidate, prepd. from 4-cyanoaniline and di-Ph N-cyanocarbonimidate, with 2,6-dichlorobenzeneethanimidamide gave 67% 4-[[4-amino-6-[(2,6-dichlorophenyl)methyl]-1,3,5-triazin-2-yl]amino]benzonitrile.

IT **205380-95-6P**
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(prepn. and anti-HIV activity of diaminotriazines)

RN 205380-95-6 HCAPLUS

CN Benzamide, 4-[[4-amino-6-[(5-chloro-1H-indol-4-yl)methyl]-1,3,5-triazin-2-yl]amino]- (9CI) (CA INDEX NAME)